



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-01/533i/CEMENT/2017-18

Date: 03.01.2018

TEST REPORT ON CEMENT

* Customer	:	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	Technical Manager, KRIDL, Bangalore.
* Name of Work	:	Improvements to CC Roads and RCC drains Dhobighat surrounding area in PK's colony slum Mallasandra Ward No.13, BBMP, Bangalore.
* Reference	:	BBMP/EE/PD/WO/64/2017-18 Dated: 14.11.2017
* Sample ID	:	Cement
Sample Received on	:	01.01.2018
Period of Testing	:	01.01.2018 to 03.01.2018



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	495 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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- ⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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VIDYARANI P.K.
Technical Manager



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03.01.2018

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager, KRIDL, Bangalore.
* Name of Work	: Improvements to CC Roads and RCC drains Dhobighat surrounding area in PK's colony slum Mallasandra Ward No.13, BBMP, Bangalore.
* Reference	: BBMP/EE/PD/WO/64/2017-18 Dated: 14.11.2017
* Sample ID	: Fine Aggregates
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 01.01.2018
Date of Testing	: 03.01.2018



Total Wt. of Aggregates in gms = 1000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.50	90-100	90-100	90-100	95-100
2.36	81.20	60-95	75-100	85-100	95-100
1.18	62.70	30-70	55-90	75-100	90-100
600 Micron	41.40	15-34	35-59	60-79	80-100
300 Micron	22.90	5-20	8-30	12-40	15-50
150 Micron	4.40	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note:

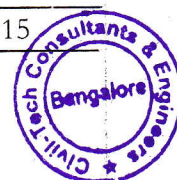
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Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-01/533i/AGG/GR/2017-18

03.01.2018

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager, KRIDL, Bangalore.
* Name of Work	: Improvements to CC Roads and RCC drains Dhobighat surrounding area in PK's colony slum Mallasandra Ward No.13, BBMP, Bangalore.
* Reference	: BBMP/EE/PD/WO/64/2017-18 Dated: 14.11.2017
* Sample ID	: Coarse Aggregates (40mm)
Technical Reference	: IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	: 01.01.2018
Date of Testing	: 03.01.2018



Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.84	95-100	85-100
20	39.54	30-70	0-20
10	14.90	10-35	0-5
4.75	2.94	0-5	-



* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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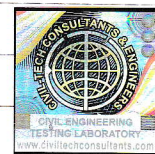


Job No.: CTCE/BBMP/KRIDL/W.No.13/Steel/2017-18

03.01.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager, KRIDL, Bangalore.
* Name of work	: Improvements to CC Roads and RCC drains Dhobighat surrounding area in PK's colony slum Mallasandra Ward No.13, BBMP, Bangalore.
* Reference	: BBMP/EE/PD/WO/64/2017-18 Dated: 14.11.2017
* Samples ID	: 8mm Bar
Technical Reference	: IS: 1786-2008
Date of Testing	: 03.01.2018



Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	513	554	13.1	O.K	O.K

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Job No.: CTCE/BBMP/KRIDL/W.No.13/Steel/2017-18

03.01.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager, KRIDL, Bangalore.
* Name of work	: Improvements to CC Roads and RCC drains Dhobighat surrounding area in PK's colony slum Mallasandra Ward No.13, BBMP, Bangalore.
* Reference	: BBMP/EE/PD/WO/64/2017-18 Dated: 14.11.2017
* Samples ID	: 10 mm Bar
Technical Reference	: IS: 1786-2008
Date of Testing	: 03.01.2018



Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	517	558	13.25	O.K	O.K

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Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-01/533i/Cube/2017-18

02.02.20 8

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager, KRIDL, Bangalore.
* Name of the work	: Improvements to CC Roads and RCC drains Dhobighat surrounding area in PK's colony slum Mallasandra Ward No.13, BBMP, Bangalore.
* Reference	: BBMP/EE/PD/WO/64/2017-18 Dated: 14.11.2017
* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 02.02.2018



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	05.01.2018	02.02.2018	8.103	528.9	23.51
2	05.01.2018	02.02.2018	8.280	508.3	22.59
3	05.01.2018	02.02.2018	8.336	513.2	22.81

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